INORGANIC VENTURES

MATERIAL SAFETY DATA SHEET

SS-1556ONA

Revision Number 1, Revision Date March 09, 2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code SS-1556ONA
Product name 1,000 µg/mL Silica
Common Name Silica in Dilute Sodium Hydroxide
Manufacturer, importer, supplier Teknolab
P.O. Box 33
1411 Kolbotn
Norway
Tel: + 47 66 81 34 70
Fax: +47 66 81 34 71
Web: www.spectrascan.no
Emergency telephone number 800-424-9300 CHEMTREC (24 hrs)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH*	ACGIH*	OSHA*	OSHA*	OSHA*	OSHA*	OSHA*
7732-18-5	Water	~95-99	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1310-73-2	Sodium hydroxide	~0-2	N/A	N/A	2 mg/m3 TWA	N/A	N/A	N/A	N/A
60676-86-0	Silica, fused	~0.1-1	0.1 mg/m3 TWA (respirable fraction)	N/A	N/A	N/A	N/A	N/A	N/A

* ACGIH - Occupational Exposure Limits - TWAs
* ACGIH - Occupational Exposure Limits - STELs
* OSHA - Final PELs - Time Weighted Averages (TWAs)
* OSHA - Final PELs - Ceiling Limits
* OSHA - Final PELs - Short Term Exposure Limits
* OSHA - Regulated Carcinogens
* OSHA - Select Carcinogens

3. HAZARDS IDENTIFICATION

Emergency Overview
- Final product is not regulated

Eye contact	• Contact with eyes may cause irritation
Skin contact	• Substance may cause slight skin irritation
Inhalation	• May cause irritation of respiratory tract
Ingestion	• Ingestion may cause irritation to mucous membranes

4. FIRST AID MEASURES

General advice	• Show this safety data sheet to the doctor in attendance
Skin contact	• Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Eye contact	• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes • Keep eye wide open while rinsing • If eye irritation persists, consult a specialist
Inhalation	• Move to fresh air
Ingestion	• If conscious, drink plenty of water • Consult a physician

5. FIRE-FIGHTING MEASURES

Flash point	NA
Suitable extinguishing media	• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Specific hazards	• None
Specific methods	• Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations
Special protective equipment for firefighters	• As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
NFPA (National Fire Protection Association)	• Health - 1 • Fire Hazard - 0 • Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	• Ensure adequate ventilation
Environmental precautions	• Prevent further leakage or spillage if safe to do so • Prevent product from entering drains
Methods for cleaning up	• Dam up • Pick up and transfer to properly labelled containers • Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container • After cleaning, flush away traces with water

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions	• Use only in area provided with appropriate exhaust ventilation
Safe handling advice	• Wear personal protective equipment

Storage

Technical measures/Precautions	• Keep in properly labelled containers • Store at room temperature in the original container • Keep containers tightly closed in a dry, cool and well-ventilated place
Incompatible products	• No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment	
Hand protection	• impervious gloves
Eye protection	• tightly fitting safety goggles
Respiratory protection	• Ensure adequate ventilation
Skin and body protection	• Chemical resistant apron • Lab coat
Hygiene measures	• When using, do not eat, drink or smoke • Regular cleaning of equipment, work area and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	liquid.
Appearance	clear
Colour	colorless.
Odour	None.

Important Health Safety and Environmental Information

pH	6 to 8
Boiling point/range	100°C
Flash point	N/A
Vapour pressure	NA.
Water solubility	miscible.

10. STABILITY AND REACTIVITY

Stability	• Stable under normal conditions • Hazardous polymerisation does not occur
Materials to avoid	• No information available
Hazardous decomposition products	• No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

CAS	Chemical Name	% Weight	LD50/oral/rat =	LD50/dermal/rat =
7732-18-5	Water	~95-99	N/A	N/A
1310-73-2	Sodium hydroxide	~0-2	N/A	N/A
60676-86-0	Silica, fused	~0.1-1	N/A	N/A

Product Information

Local effects	
Eye irritation	May cause eye irritation with susceptible persons.
Skin irritation	May cause skin irritation and/or dermatitis.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause irritation to mucous membranes.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

CAS	Chemical Name	% Weight	EFAD*	EFFSD*	EMD - Ecotoxicity*
7732-18-5	Water	~95-99	N/A	N/A	N/A
1310-73-2	Sodium hydroxide	~0-2	N/A	N/A	N/A
60676-86-0	Silica, fused	~0.1-1	N/A	N/A	N/A

* EFAD - Ecotoxicity - Freshwater Algae Data
* EFFSD - Ecotoxicity - Freshwater Fish Species Data
* EMD - Ecotoxicity - Microtox Data

Product Information

Do not allow material to contaminate ground water or sewage system

Other information

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	• In accordance with local and national regulations
Contaminated packaging	• Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Final product is not regulated

IATA-DGR Final product is not regulated

15. REGULATORY INFORMATION

U.S. INVENTORIES:

CAS	Chemical Name	% Weight	CPCL*	NJRTK*	CERCLA/SARA*	TSCA*
7732-18-5	Water	~95-99	N/A	N/A	N/A	Present
1310-73-2	Sodium hydroxide	~0-2	N/A	sn 1706	1000 lb final RQ; 454 kg final RQ	Present
60676-86-0	Silica, fused	~0.1-1	N/A	sn 1656	N/A	Present

* CPCL - California - Proposition 65 - Carcinogens List
* NJRTK - New Jersey - Department of Health RTK List
* CERCLA/SARA - Hazardous Substances and their Reportable Quantities
* TSCA - United States - Section 8 (b) Inventory (TSCA)

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INTERNATIONAL INVENTORIES:

CAS	Chemical Name	% Weight	AICS - Australia*	EINECCS - European Union*	ELINCS - EU list of Notified Chemical Substances (ELINCS)	ENCS*	WHMIS*
7732-18-5	Water	~95-99	Present	231-791-2	N/A	N/A	Uncontrolled product according to WHMIS classification criteria
1310-73-2	Sodium hydroxide	~0-2	Present	215-185-5	N/A	1-410; 2-1972	E (including 0.08%, 2%, 2.5%, 5%, 0.01 N, 0.04 N, 0.1 N, 10%, 16%, 1 N, 20%, 40%, 50%, 8.7%)
60676-86-0	Silica, fused	~0.1-1	Present	262-373-8	EEC No. 424-440-1	1-548	Uncontrolled product according to WHMIS classification criteria

* AICS - Australia - Inventory of Chemical Substances (AICS)
* EINECCS - European Union - European inventory of Existing Commercial Chemical Substances (EINECCS)
* ENCS - Japan Existing and New Chemical Substances (ENCS)
* WHMIS - Canada - WHMIS - Classifications of Substances

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16. OTHER INFORMATION

The above information is believed to be accurate and represents the best information available to us. It has been compiled from the data presented in various technical publications and our experience and should only be used as a guide for handling this product. It is the user's responsibility to determine the suitability of this information for their particular purposes. We assume that only qualified individuals, trained and familiar with procedures suitable to this product will handle this material. Teknolab assumes no responsibility and shall not be held liable for any damage resulting from misuse of this product.